



[IPN Home](#) | [Search](#) | [Order](#) | [Shopping Cart](#) | [Login](#) | [Site Map](#) | [Help](#)



JP63097633A2: NOVEL CHITOSAN PARTICLE

[View Images \(1 pages\)](#) | [View INPADOC only](#)

Country: **JP Japan**

Kind:

Inventor(s): **ITO YOSHIO
ITOYAMA MITSUNORI
YABE HIROAKI**

Applicant(s): **FUJI BOSEKI KK**
[News, Profiles, Stocks and More about this company](#)

Issued/Filed Dates: **April 28, 1988 / Oct. 13, 1986**

Application Number: **JP1986000242545**

IPC Class: **C08J 3/24; C08B 37/08; C08J 3/12; C12N 5/02; C12N 11/10; C12P 21/00;**

Abstract:

Purpose: To obtain the title particles excellent in safety, biocompatibility and swellability and useful as a carrier for physiologically active substances, by reacting specified chitosan particles with an aromatic compound and crosslinking the product with an organic diisocyanate.

Constitution: Chitosan particles (A) are obtained by coagulating a 3W6% acidic aqueous chitosan solution obtained by dissolving chitosan of an average MW of 10,000W230,000 in an aqueous acid solution (e.g., aqueous acetic acid solution) by feeding it under a pressure to a basic aqueous solution (e.g., aqueous NaOH solution) optionally containing a polar alcohol. Component A is reacted with 0.1W0.5mol, per mol of the glucosamine residues of component A, of an aromatic compound (B) (e.g., cyanuric chloride) in a polar solvent (e.g., dimethylformamide), and the product is crosslinked in a polar solvent containing 5W10% organic diisocyanate compound (C) (e.g., hexamethylene diisocyanate) to obtain the title particles having an apparent density of 0.015W0.030g/ml and a particle diameter of 0.10W0.35mm.

COPYRIGHT: (C)1988,JPO&Japio

Other Abstract Info: **DERABS C88-157861 DERC88-157861**

Foreign References: **(No patents reference this one)**



Alternative
Searches



[Patent Number](#)



[Boolean Text](#)



[Advanced Text](#)

[Nominate this](#)

